

The Author Node



L3 Filter Authors



The Level 3 Group

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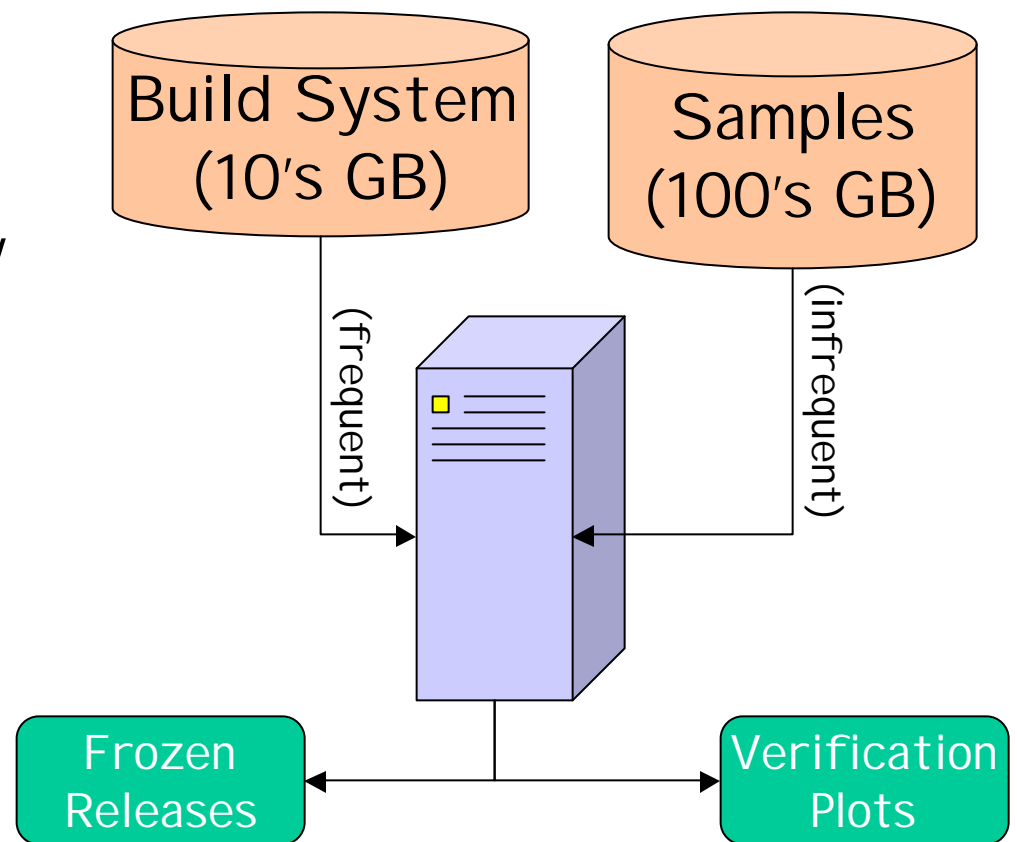
Gordon Watts

The Problem

- L3 Filter Authors must build d0 cvs modules on NT
 - Against latest releases
 - In an *official* environment
- But several things prevent this
 - May not have direct/easy access to an NT box
 - Configuring and setting up the NT box may not be easy
 - Constantly installing releases, etc.
 - IRIX doesn't require this, nor do some of the managed Linux boxes
 - Takes time (system management)
 - Also numerous build system problems...

The Problem I I

- Verification and testing required to release a L3 Filter
 - Infrequent, but heavy when it occurs
 - Run on many samples
- Stable build machine for managers
 - Frequent builds
 - Constant CPU load



The Solution

- Two multiple use machines
- Allow multiple logins
 - From other NT or Unix boxes
 - Each user gets their own desktop.
- Configuration Maintained for I3 filter developer
 - CYGWIN environment maintained by a combination of Brown, Fermilab, and Washington.
 - Releases kept up to date by release managers
 - Installed as they are frozen.
 - Tested in a non release build environment.

Two Machines

- Optimized for filter Developer
 - Fast CPU intensive machine
 - Lots of memory
 - Fast disk
 - Good network connection
 - Accessible from both UNIX and NT desktops
- Optimized for builder & Verification
 - Lots of disk space
 - Lots of memory
 - Accessible from NT

Da Plan

- Purchase the high end system
 - 2 options
 - 1 high end system, with 4 cpus, 200 GB fast scsi, 2 GB memory.
 - This hardware is very expensive
 - Several low end CPUs
 - Cheaper, but you have the typical load balancing problem.
 - Software costs
 - Software for UNIX and NT remote access
 - Both options would be about \$25k (includes \$8k of software)

Da Plan I I

- Upgrade current build system
 - 4 CPU, 400 MHz system (was \$20k when we got it!).
 - Add disk to bring it up to its max
 - Already has plenty of memory (512 MB)
 - Costs about \$5k for hardware, ~\$2k for software.

Da Plan I I I

- Maintain The Systems
 - Brown, UW, FNAL would all help maintain the environment
 - Make sure releases installed, etc.
 - Keep web builder going for quick tests as well (web builder would run on the verification system).